

CLAIMS

1. A sensor-equipped hub unit comprising a hub unit having a rotation-side raceway member for a wheel to be attached thereto, a fixed-side raceway member to be fixed to a vehicle
5 body and rolling bodies arranged between the two raceway members, and a sensor device provided on the hub unit,

the sensor-equipped hub unit being characterized in that a brake caliper is fastened to the fixed-side raceway member of the hub unit as an assembly, the sensor device having a brake
10 torque sensor provided on the fixed-side raceway member.

2. A sensor-equipped hub unit according to claim 1 wherein the fixed-side raceway member has a caliper mount extending radially outwardly thereof and having the brake caliper attached thereto, and the brake torque sensor is
15 provided at a base end of the caliper mount.

3. A sensor-equipped hub unit according to claim 2 wherein the brake torque sensor comprises a strain gauge.

4. A sensor-equipped hub unit according to claim 1 wherein the fixed-side raceway member is fixed to a knuckle
20 arm on the vehicle body by a knuckle attaching flange provided on the fixed-side raceway member.

5. A sensor-equipped hub unit according to claim 4 wherein the caliper mount is a caliper mount arm integral with the fixed-side raceway member, and the brake caliper is
25 attached to the arm.

6. A sensor-equipped hub unit according to claim 5 wherein the caliper mount arm is provided at the same position as the knuckle attaching flange with respect to the axial direction of the fixed-side raceway member.

7. A sensor-equipped hub unit according to claim 5 wherein the caliper mount arm is provided at a position different from that of the knuckle attaching flange with respect to the axial direction of the fixed-side raceway member.

8. A sensor-equipped hub unit according to claim 3 wherein the caliper mount comprises a flange integral with the fixed-side raceway member and a caliper mount member separate from the flange and fixed to the flange with a bolt, and the strain gauge is affixed to the flange of the fixed-side raceway member.

9. A sensor-equipped hub unit according to claim 8 wherein the fixed-side raceway member is fixed to a knuckle arm on the vehicle body by a knuckle attaching flange provided on the fixed-side raceway member, and the knuckle arm is fixed to the flange of the fixed-side raceway member with the same bolt as the caliper mount member.